## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP02/13712

	SIFICATION OF SUBJECT MATTER  C1 C21D9/46, C21D8/02, C22C	38/04, C23C2/06, 2/28	
According	to International Patent Classification (IPC) or to both	national classification and IPC	
	S SEARCHED		
Minimum o	ocumentation searched (classification system follows C1 <sup>7</sup> C21D9/46-9/48, C21D8/00-6 C23C2/00-2/40	ed by classification symbols) 3/04, C22C30/00-38/60,	
<u> </u>			<u> </u>
Jits Koka	tion searched other than minimum documentation to tryo Shinan Koho 1926–1996 i Jitsuyo Shinan Koho 1971–2003	Toroku Jitsuyo Shinan Koh Jitsuyo Shinan Toroku Koh	o 1994-2003 o 1996-2003
Electionic (	lata base consulted during the international search (na	me of dala basc and, where practicable, sea	arch terms used)
			8
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2001-140022 A (Nippon St 22 May, 2001 (22.05.01), Claims; tables 2, 3; Fig. 1 (Family: none)	eel Corp.),	1 2-6
Y A	JP 11-279691 A (Nippon Stee 12 October, 1999 (12.10.99), Claims; page 4, column 5, li (Family: none)	-	2-6
A	JP 7-48662 A (Nippon Steel 21 February, 1995 (21.02.95) Claims (Family: none)	Corp.),	1-6
A	JP 11-323492 A (Kobe Steel, 26 November, 1999 (26.11.99) Claims (Family: none)	Ltd.),	1-6
S Further	r documents are listed in the continuation of Pau C		<del></del>
	r documents are listed in the continuation of Box C. categories of cited documents:	See palent family annex.	
"A" document defining the general state of the art which is not considered to be of panicular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
. 27 Ma	exch, 2003 (27.03.03)	Date of mailing of the international search 08 April, 2003 (08.0	h report 04.03)
	ding address of the ISA/ tese Patent Office	Authorized officer	
Facsimile No.		Telephone No.	
FA- PCT'/I	SAMIN (second cheek) (Yulu 1000)	l	

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/13712

Calegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 5-163531 A (Kobe Steel, Ltd.), 29 June, 1993 (29.06.93), Claims (Family: none)	1-6
A	<pre>JP 11-193419 A (Kobe Steel, Ltd.), 21 July, 1999 (21.07.99), Claims (Family: none)</pre>	1-6
*		
	ı ¥	
×		
		· · · · · · · · · · · · · · · · · · ·